

Date: Wed, 3 Aug 94 04:30:15 PDT
From: Ham-Digital Mailing List and Newsgroup <ham-digital@ucsd.edu>
Errors-To: Ham-Digital-Errors@UCSD.Edu
Reply-To: Ham-Digital@UCSD.Edu
Precedence: Bulk
Subject: Ham-Digital Digest V94 #259
To: Ham-Digital

Ham-Digital Digest Wed, 3 Aug 94 Volume 94 : Issue 259

Today's Topics:

 Baycomm and English manual
 cheap packet?
 HEATHKIT radio clock and Linux?
 Help -packet
 HF BBS Recommendation?
Is the KAM 9612 out yet ? (3 msgs)
 KaGOLD vs. KaGOLD w/pactor
 Looking for JVFAX 7.0
 MFJ 1278 for sale
Minisport Laptop Hacker - Issue #22
Opinions on the AEA Fax II (2 msgs)
 Packet Radio BALLOON FLIGHT!

Send Replies or notes for publication to: <Ham-Digital@UCSD.Edu>
Send subscription requests to: <Ham-Digital-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Digital Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-digital".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 2 Aug 94 16:51:08 GMT
From: news-mail-gateway@ucsd.edu
Subject: Baycomm and English manual
To: ham-digital@ucsd.edu

Andrew Lynch posted a message about his German being as good as it could be for
reading the Baycomm manual. An English version is available from ftp.ucsd.edu.
Path is hamradio/packet/baycomm. I can't remember exactly which file has it,
but there is only two that have Baycomm*.zip. Hope this helps.

73's de KC5GWA (Bren Doreck)

bdoreck@beach.utmb.edu

Date: 1 Aug 1994 17:08:23 GMT
From: ihnp4.ucsd.edu!agate!msuinfo!netnews.upenn.edu!news.drexel.edu!news.ge.com!
knight.vf.ge.com!cnn.motown.ge.com!epi057!wmays@network.ucsd.edu
Subject: cheap packet?
To: ham-digital@ucsd.edu

Has anyone looked at the programmable DSP modems (fax/data)
such as the DSI Connection 144 and similar Cardinal MVP144DSP
for re-programming to the non-phone standards?
These two pc cards are Analog Devices ADSP processors
and download the program from the pc, no roms.
Since they do 9600 baud fax and 19600 &/or 14400 data,
I would think they could do many radio (and TDD) jobs.

Speaking only for myself: Bill Mays
 \ / WMAYS@MOTOWN.GE.COM
 \/
 /\ Same place, same job,
/ \ my mark. third company.

Date: Sun, 31 Jul 94 22:18:03 GMT
From: hookup!yeshua.marcam.com!charnel.ecst.csuchico.edu!olivea!isc-br!tau-ceti!
jupiter!opus-ovh!bmork@ames.arpa
Subject: HEATHKIT radio clock and Linux?
To: ham-digital@ucsd.edu

longyear@netcom.com (Al Longyear) writes:

> (The completed clock, around the time time that the kit was being
> offered for \$130, was \$400. The kit was a nice week project and it works
> quite well still.)

For \$400, one could buy an OEM GPS module that outputs the time.

Brian Mork UUCP bmork@opus-ovh.spk.wa.us / ARO ka9snf@ka7fvv.#ewa.wa.usa
.... USMail 6006-B Eaker, Fairchild, WA 99011
..V:509-244-3764 D:509-244-9260

Date: 2 Aug 1994 15:11:43 +1000
From: ihnp4.ucsd.edu!munnnari.oz.au!yarrina.connect.com.au!werple.apana.org.au!
news@network.ucsd.edu
Subject: Help -packet
To: ham-digital@ucsd.edu

Hi everyone

I have a Baycom modem that I am trying to get to work with an old Wang PC that is running IBM emulation software. The Wang runs Telix OK.

I have tried to use Baycom 1.5 with the computer without success as well as tried TPK and g8bpq, again without success. Does anyone know of any other software around that might work with the Baycom modem? If so can you please drop me a line. If you also know a place from which I can download the program I would be grateful also.

Thanks Peter

Date: Mon, 1 Aug 1994 17:20:22 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!EU.net!Germany.EU.net!netmbx.de!
zrz.TU-Berlin.DE!math.fu-berlin.de!news@network.ucsd.edu
Subject: HF BBS Recommendation?
To: ham-digital@ucsd.edu

This is a non-ham application but I'm sure this is the correct place to ask. I need to set up a temporary HF digital link where one station will be uploading and downloading ASCII (and maybe binary) files from the remote. The remote may not be manned continuously. The equipment will be Kenwood HF Transceivers with PK-232s.

I can use the 232's software at the manned station, what software do I need at the unmanned station? Something like a barebones BBS would be the ticket.

Your quick response is appreciated. I'm available in the following ways:

here.
mtimprn@baileys-emh2.army.mil
home 703-670-0575
work 703-756-1971

Thanks,
Kevin
kj4qf

Date: Tue, 2 Aug 1994 15:07:43 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!math.ohio-state.edu!jussieu.fr!
univ-lyon1.fr!swidir.switch.ch!news.unige.ch!ugun2a!pfund@network.ucsd.edu
Subject: Is the KAM 9612 out yet ?
To: ham-digital@ucsd.edu

Hi all,

I just wanted to know if the KAM 9612 is out for sale yet ?

Thanks for your info

73s de Daniel, HB9VBC

--

___ Daniel Pfund Internet: pfund@uni2a.unige.ch
__/// University of Geneva, Economics AX25: hb9vbc@hb9iap.srom.ch.eu
\\// meet the AMIGA's little brother: the Psion 3a! \ham radio amateur

Date: Tue, 02 Aug 1994 12:46:01 -0500
From: news.sprintlink.net!bga.com!slip191.bga.com!user@uunet.uu.net
Subject: Is the KAM 9612 out yet ?
To: ham-digital@ucsd.edu

In article <1994Aug2.170743.1@ugun2a>, pfund@uni2a.unige.ch wrote:

> Hi all,

>

> I just wanted to know if the KAM 9612 is out for sale yet ?

>

> Thanks for your info

>

> 73s de Daniel, HB9VBC

>

> --

>

> ___ Daniel Pfund Internet: pfund@uni2a.unige.ch
> __/// University of Geneva, Economics AX25: hb9vbc@hb9iap.srom.ch.eu
> \\// meet the AMIGA's little brother: the Psion 3a! \ham radio amateur

Purchased mine locally for US\$209 last week. Funny thing is the manual is
copyright dated July 1994!

--

Henry Middlebrook Internet: henrym@bga.com
Austin, TX AMPRnet: n5sh1@n5sh1.ampr.org

Date: Tue, 2 Aug 1994 17:15:18 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!newshub.nosc.mil!news@network.ucsd.edu
Subject: Is the KAM 9612 out yet ?
To: ham-digital@ucsd.edu

In <1994Aug2.170743.1@ugun2a>, pfund@uni2a.unige.ch writes:

>Hi all,

>

>I just wanted to know if the KAM 9612 is out for sale yet ?

>

>Thanks for your info

>

>73s de Daniel, HB9VBC

>

>--

> --

Yes it is available at least stateside. I got one from the San Diego
HRO store last weekend, so far it works great!

Rick Craig, N6ND
craigr@marlin.nosc.mil

Date: 2 Aug 1994 15:48:49 GMT
From: ihnp4.ucsd.edu!pacbell.com!well!barrnet.net!agate!howland.reston.ans.net!
gatech!newsxfer.itd.umich.edu!newsrelay.iastate.edu!news.iastate.edu!
kenman@network.ucsd.edu
Subject: KaGOLD vs. KaGOLD w/pactor
To: ham-digital@ucsd.edu

I'm thinking of buying one of the GOLD programs to use with my KPC-3. I'm a
little confused: Obviously KaGOLD will work fine, but will KaGOLD w/pactor
work on my KPC-3? (At a later date, I might want to "upgrade" to a KAM and
use the pactor functions).

The limited information I have doesn't make it clear.

Thanks and 73, Ken

Ken Anderson NOZEM PH: 515.294.8996 Kenman@iastate.edu
126 Soil Tilth Bldg. NOZEM@KIOQ.#CIA.IA.USA.NA
Iowa State University, Ames, Iowa 50011

I posted this question a couple of weeks ago and the only responses were "I'm looking too, let me know if you find it!".

The new version is JVFAX 7.0 which I understand was recently released.

— —

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=====  =====  =====  | Ron Wright                | Voice: (318) 357-5594
| |      | |      | |      | User Support Specialist   |
| N|      | S|      | U|      | Northwestern State University | Fax:   (318) 357-5745
| |      | |      | |      | Computer Center          |
=====  =====  =====  | Natchitoches, Louisiana   | Ron@alpha.nsula.edu
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I have a MFJ 1278 with 2400 baud modem (factory installed) which I used up until a couple of years ago. I am interested in selling this item. If you are interested in making an offer, I will consider all offers and will let

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-- Will Wilson --      * will@galois.NSCF.Org **** Amateur Radio KC4GSS
3823 Wright Reese Rd. *^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
Warrenton, GA 30828   * It is better to copulate than never.
(706) 465 - 2063      *
                                Robert Heinlein
```

MiniSport Laptop Hacker - Vol #22. July 1994
To discourage pecuniary interests, Copyright (c) 1994 Brian Mork

The MLHacker series is formatted to print out on 8.5"x11" sheets manually fed into an Epson LQ-850. I print at 8 lpi, which gives 82 lines per page. Back issues are available from ftp.cs.buffalo.edu in the \pub\msdos\ham-radio directory. E-mail server ham-server@grafex.cupertino.ca.us also has them in the directory \hamradio\newsletters. Note in the signature block that my Packet Radio has changed.

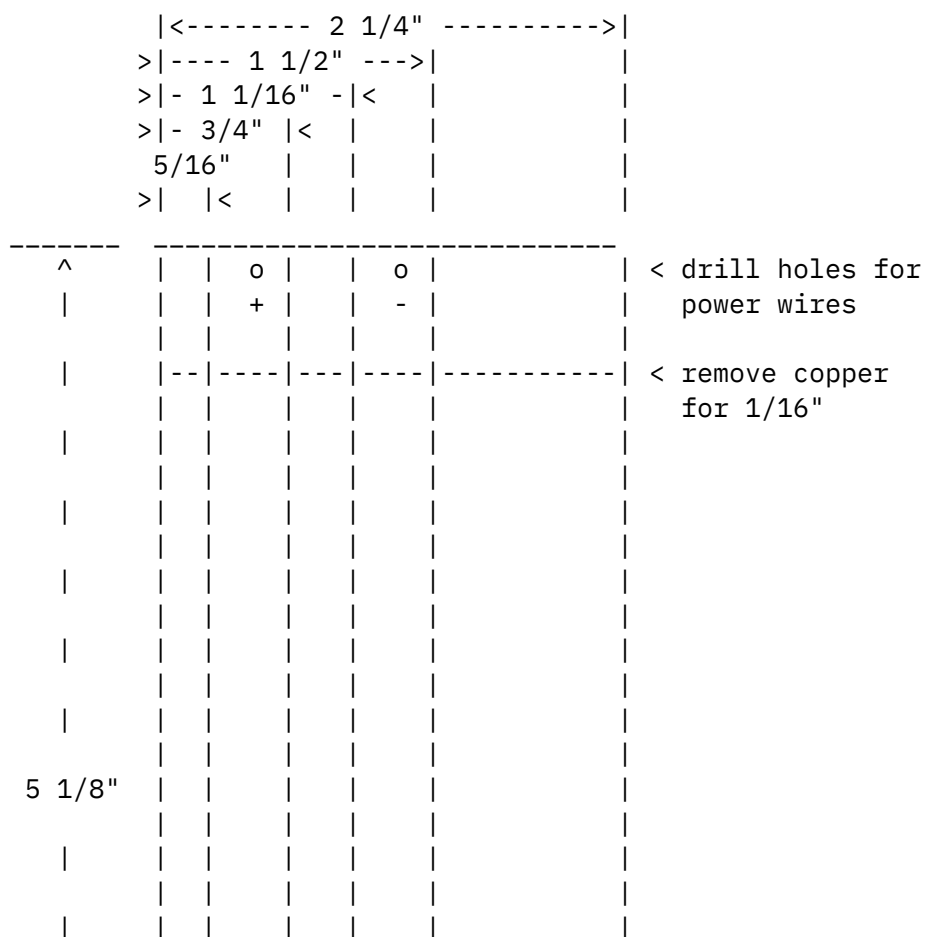
In April Jim forwarded me results of his efforts to modify 9.6 volt Makita power tool batteries. Cut directly from his Internet message, here are his observations (thanks Jim!):

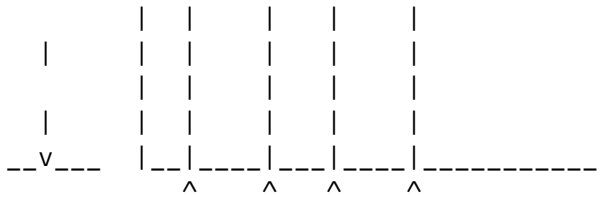
"Just the other day I did something I've been dreading for 6 months. I removed the stock battery from my Zenith ZL-2 Minisport and connected a variable voltage power supply directly to the computer's power terminals. After adjusting the supply to six volts, I powered up the computer and verified that it was working properly. Then, taking a deep breath, I slowly cranked the power up to ten volts. No explosions, no complaints from the Minisport power supplies, It took it just fine. Great, now I can use my 9.6 volt Makita batteries with the laptop as part of my portable packet station.

"Since the internal Zenith supplies are all switchers, current drain is inversely proportional to battery voltage. This means no power is wasted regardless of whether the voltage is 6.0 (stock Minisport battery) or 9.6 volts (as in my Makita pack). I measure 450 - 650 Ma drain with a 6.0 volt source (depending on backlight brightness), but with a 9.6 volt source, only 340 - 425 Ma is needed. The Makita batteries are about 1400 MAh capacity and run my ZL-2 for 3 hours with the backlight on full. Obviously, a 7.2 volt external would work also, with proportionally reduced operating time.

"I had to make a better way to get the external power to the machine than the alligator clips I was using. I thought I'd share what I built with you all. Here's how to make a fake battery pack for your Minisport.

"Begin by cutting a 2 1/4" by 5 1/8" piece of single sided glass epoxy Printed Circuit board material. Remove 1/16" strips of copper along five lines as shown in the following diagram.





Remove copper along these four lines

"Drill the two holes close to the edge so solder will not interfere with the power contacts on the machine. Only the two small rectangular areas with holes will actually be energized. Isolating these minimizes the possibility of short circuiting the battery. Nevertheless, you should always disconnect the external battery when the fake unit is removed from the computer.

"You can remove strips of copper by double scoring the material 1/16" apart along the indicated lines, then gouging out the metal with a knife or wood chisel. With some patience, you can also do it with a hacksaw or a hand grinder. My favorite method is using a 1/8" drill bit in a small drill press as a router. I raise the table until the PC board is just touching the drill bit. Then one or two thickness of 3 x 5 card under the board raises the copper just enough so I can route out metal along the lines by moving the board under the bit while it's turning at the highest speed. I have a piece of wood with a vertical fence screwed to one edge that I can "C" clamp to the drill table to help guide the PC board while routing.

"You will need to solder a power cable directly to the board, or glue some sort of jack on the board to accept a power cable through the battery cover hole. The NEGATIVE terminal is nearest the front of the Laptop. The POSITIVE terminal is the rearmost. You won't need a connection to the center terminal, it is used by the Minisport charging circuit. Use a minimum amount of solder and file the solder bumps down smooth.

"Complete the fake battery by gluing a block of wood about 1 inch high to the glass side of the PC board. This takes up the slack in the battery compartment so the board is pressed firmly onto the computer's power terminals. You will have to sand the block to just the right height, or glue on strips of cardboard for extra height if it's too short.

"One problem with using a higher than six volt battery with the Minisport is that the low battery voltage alarm doesn't work. It appears that by the time the 9.6 volt pack is discharged far enough to trip the alarm, it's going down so fast that there isn't time for an indication. Save your work often if you're

near drop out time. It should be possible to construct a separate discharge alarm on the fake battery board that will trip at a higher voltage and give a couple of minutes warning.

"I have also created a real battery pack for my Minisport by using one of these routed out PC boards, and hot gluing five "C" size nicads to the top. It works as well as the 1700 MAh Minisport batteries but I have not figured out a way to use the Minisport charger. Also the exposed battery power terminals on the bottom require care to avoid short circuits.

>>> DRIVE EXPANSION PINOUT

On the back of the Minisport is a small plug with a rectangular external form and an internal "D" shape. I have been unable to identify a source for this connector, but several people have asked for the pinout. Here it is, compliments of wa8wzx. The top row of pins 1 through 19 are all sequential odd numbers. The bottom row has pins 2 through 20. Pins 4, 10, 12, 19 & 20 are all ground. Others are:

1 Disk Change	2 Side Select	3 Read Data
5 Write Protect	6 Track 0	7 Index
8 Write Enable	9 Write Data	11 Step
13 Direction Select	14 Drive Select 2	
15 RPM	16 Motor On	17-18 Vcc

Please provide feedback! * Direct data 1-509-244-9260
 * ARO Net KA9SNF@ka7fvv.#ewa.wa.usa
 * Internet bmork@opus-ovh.spk.wa.us
73, Brian * 6006-B Eaker, Fairchild, WA 99011

Brian Mork UUCP bmork@opus-ovh.spk.wa.us / ARO ka9snf@ka7fvv.#ewa.wa.usa
.... USMail 6006-B Eaker, Fairchild, WA 99011
.. .. .V:509-244-3764 D:509-244-9260

Date: 1 Aug 1994 17:52:26 GMT
From: ihnp4.ucsd.edu!pacbell.com!unet.net.com!yakutat!johng@network.ucsd.edu
Subject: Opinions on the AEA Fax II
To: ham-digital@ucsd.edu

I've been thinking about getting one of these for some time. I plan to use it on my boat to gather weather data and 'help out' with my CW practice.

Does anyone here have positive and or negative experience with this product?

Thanks.

--

John Gratton
Hans Christian 33 "Nakia"

|
|

johng@net.com
(415)780-5774

Date: 2 Aug 1994 10:25:15 -0400
From: news1.digex.net!digex.net!not-for-mail@uunet.uu.net
Subject: Opinions on the AEA Fax II
To: ham-digital@ucsd.edu

In article <31jcoq\$1r2@unet.net.com>, John Gratton wrote:

>
> I've been thinking about getting one of these for some time.
> I plan to use it on my boat to gather weather data and 'help out'
> with my CW practice.

>
> Does anyone here have positive and or negative experience
> with this product?

>
>

> Thanks.

> --

> John Gratton
> Hans Christian 33 "Nakia"

|
|

johng@net.com
(415)780-5774

John,

I use the AEA FAX II and am very pleased w/mine. It works well for NAVTEX
and WEFAX (as well as RTTY, and CW).

Andy N3LCW

Date: 2 Aug 94 15:19:42 MDT
From: ihnp4.ucsd.edu!agate!dog.ee.lbl.gov!news.cs.utah.edu!cc.usu.edu!
danander@network.ucsd.edu
Subject: Packet Radio BALLOON FLIGHT!
To: ham-digital@ucsd.edu

Mars Aerial Platform(MAP) Balloon Packet Format:

Call Sign N7UXC

Field	Description
First Line	
1	GPS Available (1=Yes, 0=No)
2	# Satellites available (3=2 Dimensional, 4=3D)
3	GPS Date/Time UTC (Example 8/02/1994 09:15:45:333)
4	Latitude (Example N 45Ú22.45)
5	Longitude (Example (W 111Ú 22.45)
6	Altitude (Meters)
7	Velocity east (m/s)
8	Velocity north (m/s)
9	Velocity up (m/s)
Second Line	
10	Balloon Temp (ÚC)
11	Inside payload temp (ÚC)
12	Outside payload temp (ÚC)
13	Balloon differential pressure (inches of water)
14	Battery Voltage
15	Argos flag

The packets will be transmitted every 90 seconds on 145.750 Mhz.

I would appreciate copies of the data that anyone might collect.
If hard copy, please send to:

Stan Wellard N7UXC
1695 North Research Park Way
Logan, Utah 84321-1942

or E-mail to SWELLARD@SDL.SYS.USU.EDU

or Fax to (801)755-4299.

The balloon is skeded to depart from Logan, Ut at midnight § 1 hour tonite, August 2. If it doesn't get away tonight, we will keep trying every night until it flies using the same window. The ground track is expected to be a beeline from Logan towards Eureka, Ca.

The balloon, at 36.6 Kilometers or 120,000 feet, traveling at about 40 knots , will be followed by Stan, N7UXC and Gil Moore, N7YTK and we will be talking with hams as we travel west.

73

End of Ham-Digital Digest V94 #259
